

## The H Index for Management Information Systems

The **h-index** is a citation index that attempts to measure both the productivity and impact of the published work of a scientist or scholar (<http://en.wikipedia.org/wiki/H-index>). The index was suggested by Jorge E. Hirsch, a physicist at UCSD, as a tool for determining theoretical physicists' relative quality (Hirsch, 2005). **A scholar with an index of h has published h papers each of which has been cited by others at least h times.** The h-index is intended to measure simultaneously the quality and sustainability of scientific output, as well as, to some extent, the diversity of scientific research. Since 2005, the h-index has been discussed and analyzed in major publications such as *PNAS* and *Nature* (Hirsch, 2005, 2007; Lehmann et al., 2006; Wendl, 2007) and adopted in many disciplines (e.g., physics, biology, computer science, information science, social sciences, economics, etc.).

The h-index can be manually determined using citation databases or using automatic web tools. Subscription-based databases such as Scopus and the Web of Science provide automated calculators. Each database or tool is likely to produce a different h for the same scholar because of different coverage. Google Scholar is widely used due to its availability and easy access. Google Scholar tends to have more citations (especially from conference publications) than Scopus and Web of Science, which cover mostly journal publications (<http://en.wikipedia.org/wiki/H-index>).

We provide here a partial list of Management Information System professors and researchers who each has an h-index of 20 or higher according to Google Scholar. The original list of scholars that we considered includes AIS LEO recipients, AIS Fellows, past ICIS conference and program chairs, recent ICIS track chairs, AEs of selected major MIS journals (MISQ, ISR, JMIS, MS, DSS, JAIS, TMIS), and highly ranked scholars from several recent MIS research productivity studies (e.g., CAIS 2007; EJIS 2007). Based on an initial list of about 400 senior scholars, a PHP program was developed to automatically query Google Scholar and compute the h-index for each scholar. Due to the difficulty with common names, this program distinguishes works in the field through a combination of rules and machine learning. Selected results were manually checked to verify correctness. The results obtained from our analysis are similar to those generated from the popular and freely available Harzing's "Publish or Perish" application (<http://www.harzing.com/pop.htm>), which also accesses Google Scholar for its h-index calculation.

Although there are many different yardsticks for measuring research productivity in MIS, we believe the h-index is a metric that deserves attention due to its academic basis, simplicity, and wide acceptance in other major scientific disciplines. Several fields have included the h-index of productive scholars in their disciplines at selected web sites, such as "The h index for Computer Science" at <http://www.cs.ucla.edu/~palsberg/h-number.html>, and, for economists, the h-index provided on the IDEAS website and database at <http://ideas.repec.org/top/top.person.hindex.html>. This h-index for Management Information Systems is a similar effort.

Any automated tool may invariably introduce errors, inconsistencies, or omissions. Please send comments, corrections, and new entries to Sandeep Suntwal at the University of Arizona, [sandeepsuntwal@eller.arizona.edu](mailto:sandeepsuntwal@eller.arizona.edu). We will also provide an annual update based on our existing Java program and Google Scholar.

### References:

- Jorge E. Hirsch (2005). "An index to quantify an individual's scientific research output." *PNAS* 102 (46): 16569–16572.
- Jorge E. Hirsch (2007). "Does the h-index have predictive power?" *PNAS* 104 (49): 19193–19198.
- Michael Wendl (2007). "H-index: however ranked, citations need context." *Nature* 449 (7161): 403.
- Sune Lehmann, Andrew D. Jackson, and Benny E. Laustrup (2006). "Measures for measures." *Nature* 444 (7122): 1003–4.

Please send comments, corrections, and new entries to Sandeep Suntwal at the University of Arizona, [sandeepsuntwal@eller.arizona.edu](mailto:sandeepsuntwal@eller.arizona.edu).

H-Index	Name
88	Hsinchun Chen
85	Andrew Whinston
83	Izak Benbasat
83	Thomas H. Davenport
77	Varun Grover
75	Ronald E. Rice
74	Kalle J. Lyytinen
68	Kenneth L. Kraemer
65	Rob Kling
65	William R. King
65	Joseph S. Valacich
64	Jay F. Nunamaker, Jr.
63	Daniel Robey
63	Rudy A. Hirschheim
63	Zahir Irani
61	Alan R. Dennis
61	Detmar W. Straub, Jr.
61	Robert J. Kauffman
61	Wanda J. Orlikowski
60	Gary A. Klein
60	Jonathan Grudin
60	M. Lynne Markus
59	Robert W. Zmud
58	Sue Newell
58	Thompson Teo
57	Clyde W. Holsapple
57	Mark Keil
57	N Venkatraman
57	Ritu Agarwal
55	Douglas R. Vogel
55	EWT Ngai
55	Viswanath Venkatesh
54	Matthias Jarke
53	Michael J. Shaw
52	Hugh J. Watson
52	John C. Mingers
52	Sirkka L. Jarvenpaa
51	David Gefen
49	Colette Rolland
48	Albert L. Lederer
48	Kwok K. Wei
47	Eric K. Clemons
47	Robert D Galliers
46	George Wright
45	Blake Ives
45	Mary C. Lacity

H-Index	Name
49	Helmut Krcmar
49	Paul A. Pavlou
48	H. Raghav Rao
47	James J. Jiang
46	Arun Rai
46	Robert O. Briggs
45	Ee P. Lim
45	Soon Ang
44	Alexander Tuzhilin
44	Amrit Tiwana
44	Jane Webster
44	Lorin M. Hitt
44	PYK Chau
44	Ting P. Liang
43	Ron Weber
43	V. Sambamurthy
42	Keng L. Siau
42	Richard J. Boland, Jr.
41	BCY Tan
41	Henry C. Lucas, Jr.
41	Iris Vessey
41	Kar Y. Tam
41	Sundeep Sahay
40	Dorothy E. Leidner
40	Enid Mumford
40	Joey F George
40	Stuart E. Madnick
40	Suzanne Rivard
39	Daniel Dajun Zeng
39	Jason Dedrick
39	John L. King
38	Abraham Seidmann
38	Maryam Alavi
38	Upkar Varshney
37	Rajiv Sabherwal
37	Robert M. Davison
37	Sandra A. Slaughter
37	Tosiyasu L. Kunii
37	Tridas Mukhopadhyay
37	Yair Wand
36	Alan R. Hevner
36	James Thong
36	Juhani Iivari
36	Peter Weill
36	Richard O. Mason
35	Alok Gupta

H-Index	Name
35	Benn R. Konsynski
35	Anitesh Barua
35	Balasubramaniam Ramesh
35	E. Burton Swanson
35	Gordon B. Davis
35	John C. Henderson
35	P K. Kannan
35	Sudha Ram
34	Ann Majchrzak
34	Carol S. Saunders
34	Eileen M. Trauth
34	France Bélanger
33	Veda C. Storey
32	Bill Kettinger
32	Carsten Sorensen
32	Chrisanthi Avgerou
32	Michael Chau
32	Ramesh Sharda
31	Gurpreet S. Dhillon
31	Guy G. Gable
31	Makoto Nagao
31	Rahul Telang
30	Alain Pinsonneault
30	Allen S. Lee
30	Elena Karahanna
30	Frank F. Land
30	Hemant K. Bhargava
30	Ronald M. Lee
29	J. Daniel Couger
29	Sid L. Huff
29	Stefan Klein
28	Christian Wagner
28	G. Lawrence Sanders
28	J. Leon Zhao
28	John F. Rockart
28	Michael J. Earl
28	Ram D. Gopal
28	Vijay Gurbaxani
27	Ephraim R. McLean
27	Sue Brown
26	R. Brent Gallupe
25	Gary J. Koehler
25	Mary J. Culnan
25	Robert W. Blanning
20	Matthew R. Jones